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SCIENCE

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south pole of the magnet at the middle of the needle and stroke toward the *other* end. Stroke slowly and smoothly. The more you stroke the needle the stronger it will be magnetized. CAUTION: Keep your watch away from all magnets. They may magnetize the main spring.

The needle should now have a north pole and a south pole. You may test it with a compass. The north pole of the needle should attract the south pole of the compass and the south pole of the needle should attract the north pole of the compass. If the needle is cut in two each part should be magnetized and each should have two poles. The pieces can be cut again and again with the same result. This shows that there must be an orderly arrangement of the molecules within the needle which causes it to be magnetic.

Iron may be magnetized by a process called *induction*. A strong magnet may hold up as many as 9 or 10 tacks, each one attracted to the one above it. This is possible because each tack is actually a small magnet and is magnetized by the permanent magnet. As soon as the permanent magnet is taken away the tacks will lose their magnetism. This is called magnetizing by induction.

Magnetism will act through paper, wood, glass, water, and some other common substances. The fact that this happens shows that there is a magnetic force which surrounds the magnet and a piece of iron does not have to touch a magnet to be attracted to it. This force which is around the magnet is called a "field of force" or simply the "magnetic field." This field of force will pass through iron more easily than it will through glass or paper. We say that the iron has a higher "permeability" than the other substances. The earth has a large magnetic field. In some of the mountainous regions there are large bodies of iron and iron ore. Where these are found the magnetic field of the earth will be attracted to the deposits. This causes a compass needle to change its direction and a special correction must be made for any compass bearing.

Iron is the one element which shows strong natural magnetism. There are some alloys (mixtures of different metals), however, that have much stronger magnetic properties than iron. One of these is called "alnico." It is an alloy of iron, nickel, aluminum, and cobalt. This magnet is so powerful that it will lift 60 times its own weight.

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